Project/Site:Blue Lake Campground			City/Co	unty: Churubu	sco/Whitley	Sampling Date: 9/13/2011
Applicant/Owner: All American Resort I,	LLC				State: IN	
Investigator(s): Scott Matthews (COE),	Marty Maupin	(IDEM)	Section		ange: SE 1/2, Sec 10, TV	
Landform (hillslope, terrace, etc.): Lake	Frindge					Area of Fill - Flat - Original - co
Slope (%): Lat: 41 14.570	O' N		Long: 8			Datum:
Soil Map Unit Name: Martisco Muck					NWI classifi	
Are climatic / hydrologic conditions on the	e site typical fo	or this time of ve				
Are Vegetation, Soil, or I	Hydrology X	sionificantly	disturb			present? Yes No _X
Are Vegetation, Soil, or I					eeded, explain any answ	
SUMMARY OF FINDINGS - A				-		
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?		_ No	1	s the Sampled		
Wetland Hydrology Present?	Yes	No		within a Wetla	nd? Yes	No
Are had been filled approximately 1	l6 inches Dee	p				
VEGETATION – Use scientific n	ames of pla	ints.				
Tree Stratum (Plot size:	1	Absolute % Cover		nant Indicator es? Status	Dominance Test work	
1.					Number of Dominant S That Are OBL, FACW,	
3.					Total Number of Domin Species Across All Stra	
4. 5.					Percent of Dominant S	pecies 100.00
			= Total	Cover	That Are OBL, FACW,	or FAC: 100.00 (A/B)
Sapling/Shrub Stratum (Plot size:		.)			Prevalence Index wor	rksheet:
1					Total % Cover of:	Multiply by:
2					Obc species	X =
3. 4.				****	Thorrapecies	
5.			-		FAC species 99	
			= Total	Cover		$x = \frac{40}{x} = \frac{40}$
Herb Stratum (Plot size: 1 Sq m)		- 1000	OUVE	Column Totals: 10	
1, Poa Pratensis		95	<u>Y</u>	FAC		, ,
2. Festuca arundinacea			N	FACU		:=B/A =3.10
3					Hydrophytic Vegetation	
4.					1	Hydrophytic Vegetation
5				****	× 2 - Dominance Tes	
8	100 may 1				3 - Prevalence Inde	
7					data in Remark	Adaptations¹ (Provide supporting sor on a separate sheet)
8					1	phytic Vegetation ¹ (Explain)
9				***************************************	•	(an promy
Woody Vine Stratum (Plot size:		105	= Total	Cover	¹ Indicators of hydric soi be present, unless dist	l and wetland hydrology must urbed or problematic.
1					Hydrophytic	
2					Vegetation	~
			= Total	Cover	Present? Yes	s X No
Remarks: (Include photo numbers here	or on a separa	ate sheet.)				
Area had been filled and planted wit	h lawngrass.	For represent	ative v	egetation, see	sampling point 2.	

		1	
Sampling	Point		

Profile Description: (Desc	ribe to the de	pth needed to docu	ment the	indicator	or confin	n the absence	of indicators.)
Depth Ma			ox Featur				•
(inches) Color (mois		Color (moist)	%_	Type ¹	_Loc ²	Texture	Remarks
0-16 <u>10 yr 5/3</u>	100						Fill Material
16-20 10 yr 2/1	100						Muck
20 - 10 yr 5/1	50	10 yr 5/6	50	С	m	Ellyclor	Clay
		enrichting en etwick i grant to				7/11/12	
		***************************************				1111112	
	Hard Control		-	-	-		

The second secon		4.00.00.00.00.00.00.00.00.00.00.00.00.00		-	Marketine and the second		
¹ Type: C=Concentration, D	Depletion, RM	=Reduced Matrix, M	S=Maske	d Sand Gra	ains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:						Indicators	for Problematic Hydric Soils ³ :
Histosol (A1)			Gleyed M				Prairie Redox (A16)
Histic Epipedon (A2) Black Histic (A3)			Redox (S				Surface (S7)
Hydrogen Sulfide (A4)			d Matrix (ਠਰ) ineral (F1)			anganese Masses (F12)
Stratified Layers (A5)			Gleyed M				hallow Dark Surface (TF12) (Explain in Remarks)
X 2 cm Muck (A10)			ed Matrix	. ,		0	(Explain in Nomaine)
Depleted Below Dark Si	urface (A11)	Redox	Dark Surf	ace (F6)			
Thick Dark Surface (A1:	•	Deplet	ed Dark S	urface (F7)		3Indicators	of hydrophytic vegetation and
Sandy Mucky Mineral (S		Redox	Depression	ons (F8)			d hydrology must be present,
5 cm Mucky Peat or Peat Restrictive Layer (if observed)						unless	disturbed or problematic.
_							
						Hydric Soil	Present? Yes X No
Depth (inches):						yuno oon	
HYDROLOGY							
Wetland Hydrology Indicat	ors:						
Primary Indicators (minimum	of one is requi	red: check all that a	opiv)			Seconda	ry Indicators (minimum of two required)
Surface Water (A1)		Water-Sta	-	res (B9)			ace Soil Cracks (86)
High Water Table (A2)		Aquatic F					nage Patterns (B10)
Saturation (A3)		True Aqua	atic Plants	(B14)			Season Water Table (C2)
Water Marks (B1)		Hydrogen				Cray	fish Burrows (C8)
Sediment Deposits (B2)		Oxidized	Rhizosphe	res on Livi	ng Roots	(C3) Satu	ration Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence	of Reduce	ed Iron (C4)		ted or Stressed Plants (D1)
Algal Mat or Crust (B4)				ion in Tilled	Soils (Ce	i) <u>X</u> Geor	morphic Position (D2)
Iron Deposits (B5)	-:	Thin Mucl				FAC	-Neutral Test (D5)
 Inundation Visible on Ae Sparsely Vegetated Cor 		-					
Field Observations:	cave Surface (B8) Other (Ex	piain in Re	emarks)			
Surface Water Present?	Vac	No X Depth (in	ahaa).				
Water Table Present?		No X Depth (in			— i		
Saturation Present?		No X Depth (in					x x
(includes capillary fringe)					_		Present? Yes X No
Describe Recorded Data (str	eam gauge, mo	onitoring well, aerial	photos, pi	evious ins	ections),	if available:	
Remarks:							
2006 & 2007 aerial photogr	aphy shows ii	nundation. Also w	alkway/p	ier built o	ver area t	to reach lake.	

Project/Site:Blue Lake Campground	NAMES OF THE PERSON OF THE PER	William Herbit Selling Management of the August	City/County	Churubus	sco/Whitley	Sampling I	Date: 9/13/20	11
Applicant/Owner; All American Resort I, L	LC				State: IN			
Investigator(s); Scott Matthews (COE), M		n (IDEM)	Section, To		nge; SE 1/2, Sec 10, TWN			
Landform (hillslope, terrace, etc.); Lake Fr	indge			Local relief	(concave, convex, none):	Concave	de la transita de Mandales este estado de la transita de la constitución de la constituci	And the state of the Warden's State to a con-
Slope (%): Lat; 41 14.574'	N						· · · · · · · · · · · · · · · · · · ·	
Soil Map Unit Name: Martisco Muck, drain					NWI classifica	_		
Are climatic / hydrologic conditions on the		for this time of ve	ar? Yes					
Are Vegetation, Soil, or Hy					'Normal Circumstances" pr	-	es X No	0
Are Vegetation, Soil, or Hy					eded, explain any answers			
SUMMARY OF FINDINGS - Atta					•		•	s, etc.
Hydrophytic Vegetation Present?	Yes X	No						
Hydric Soil Present?	Yes X	No	ı	ne Sampled				
Wetland Hydrology Present?	Yes X	No	Witt	nin a Wetlar	nd? Yes X	No_		
Remarks:								
Adjacent to area of fill. Approximate	ly 1/2 of ve	egetation plots of	distrubed	by fill. Onl	y using 1/2 of plot			
VEGETATION – Use scientific na	mes of pl							
Tree Stratum (Plot size: 30 ft radius	}	Absolute % Cover	Dominant Species?	t Indicator Status	Dominance Test works			
1, Fraxinus pennsylvanicus	······ /	40	Y	FACW	Number of Dominant Sp. That Are OBL, FACW, or		5	(A)
2. Acer saccharinum		10	Y	FACW		-		V 7
3					Total Number of Domina Species Across Ali Strati		5	(B)
4.		THE RESERVE OF THE PARTY OF THE	200011110001111111111111111111111111111	- dischangements	Percent of Dominant Spo	- Cies		, ,
5.		With their parties and the control of the control o	-		That Are OBL, FACW, o		100.00	(A/8)
Sapling/Shrub Stretum (Plot size: 15 ft i	radius		= Total Co	ver	Prevalence Index work	shoot:	***************************************	
1 Salix sp.		/ 40	Υ	FACW	Total % Cover of:		Multiply by:	
2. Cephalanthus occidentalis		30	Y	OBL	OBL species 44			-
3. Fraxinus pennsylvanicus		2	N	FACW	FACW species142	x 2	<u> </u>	_
4.				•	FAC species 0	х 3	= 0	_
5					FACU species0	x4	=0	
Herb Stratum (Plot size: 1 Sq m		72	= Total Co	ver	UPL species0			_
1. Phalaris arundinacea	,	50	Υ	FACW	Column Totals: 186	(A)	328	_ (B)
2. Scirpus fluviatils	~~ ··		N	OBL	Prevalence Index	= B/A =	1.76	
3. Iris versicolor		3	N	OBL	Hydrophytic Vegetation			
4. Scirpus atrovirens		1	N	OBL	X 1 - Rapid Test for H	ydrophytic	Vegetation	
5.					× 2 - Dominance Test			
6					X 3 - Prevalence Index	k is ≤3.0 ¹		
7					4 - Morphological Ad	daptations	¹ (Provide sup	porting
8		Ministrativa de la companya del companya del companya de la compan			data in Remarks			
9		·			Problematic Hydropi	nytic Vege	itation (Explai	n)
10					¹ Indicators of hydric soil	and wallar	nd bydrology g	
Woody Vine Stratum (Plot size:		64	= Total Co	ver	be present, unless distur	bed or pro	oblematic.	iiust
1								
2.					Hydrophytic Vegetation			
			= Total Co	ver	Present? Yes	X	No	
Remarks: (Include photo numbers here	or on a sep	arate sheet.)						

Sampling Point: 2

-16 1		%	Color (moist)	<u>%Type</u> ¹	Loc²	Texture	Remarks
-	0yr 2/1	100					mucky peat
	0yr 5/1	50 1	0yr 5/6	50		LC lay	many pour
		100	oy: 0.0		:	DC IN /	
	Glay 1 5/4		**************************************			سر ا بر	Sand
				···		111/12	
	centration D=Dor		Coduced Material St	IS=Masked Sand Gr		24 41	
dric Soil Inc		Methott, Mar-1	reduced Matrix, IV	IS-Masked Saild Gi	ains.		n: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol (A			Sandy	Gleyed Matrix (S4)			Prairie Redox (A16)
Histic Epip	•			Redox (S5)			Surface (S7)
Black Histi				d Matrix (S6)			langanese Masses (F12)
	Sulfide (A4)			Mucky Mineral (F1)			Shallow Dark Surface (TF12)
	ayers (A5)			Gleyed Matrix (F2)			(Explain in Remarks)
2 cm Muck			X Deplet	ed Matrix (F3)			•
•	Selow Dark Surfac	æ (A11)		Dark Surface (F6)			
	Surface (A12)			ed Dark Surface (F7))		s of hydrophytic vegetation and
•	cky Mineral (S1)	21	Redox	Depressions (F8)			d hydrology must be present,
	y Peat or Peat (S yer (if observed)		destrika bermanyaja programa da karanta da k	and the state of t		uniess	disturbed or problematic.
strictive La; Type:	ter (ii onsatagg)	•					
Depth (inche						Hydric Soil	Present? Yes X No
marks:							<u> </u>
DROLOG	Y	W-1					
etland Hydro	ology Indicators:						
mary Indicat	ors (minimum of c	ne is require	d; check all that a	pply)		Cacando	
	ater (A1)		144-1			3600108	ary Indicators (minimum of two require
Surface Wa			vvater-Sta	ained Leaves (B9)			ary Indicators (minimum of two require face Soil Cracks (B6)
Surface Wa	r Table (A2)			ained Leaves (B9) auna (B13)		Surf	
Surface Water High Water Saturation	(A3)		Aquatic F True Aqu			Surl Drai	face Soil Cracks (B6)
Surface Water High Water Saturation	(A3)	d.7. 500	Aquatic F True Aqu	auna (B13) atic Plants (B14) Sulfide Odor (C1)		Surl Drai Dry- _X_ Cray	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2)
Surface Water High Water Saturation Water Mart Sediment E	(A3) ks (B1) Deposits (B2) 1\\	diz sam	Aquatic F True Aqu	auna (B13) atic Plants (B14)	ing Roots (C	Surl Drai Dry- Cray	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2)
Surface Water High Water Saturation Water Mari Sediment E Drift Depos	(A3) ks (B1) Deposits (B2 /1/\ sits (B3)	diz sam	Aquatic F True Aquatic F Hydrogen Oxidized Presence	auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (C4	I)	Surf Drai Dry- X_ Cray 3) Satu	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) 7/1011/2 \$710
Surface Water High Water Saturation Water Mark Sediment E Drift Depos	(A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	diz sam	Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent Ind	auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (C4 on Reduction in Tilled	I)	Surl Drai Dry X Cray Satu Stur	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9)
Surface Water High Water Saturation Water Mari Sediment I Drift Depos Algal Mat c	(A3) ks (B1) Deposits (B2) its (B3) or Crust (B4) iits (B5)		Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent Ind	auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Liv of Reduced Iron (C4	I)	Surl Drai Dry X_ Cray Stur Stur See	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) 7/10/12 shouration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1)
Surface Water High Water Saturation Water Mark Sediment I Drift Depos Algal Mat of Iron Depos Inundation	(A3) ks (B1) Deposits (B2) its (B3) or Crust (B4) its (B5) Visible on Aerial	imagery (B7)	Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent In Thin Muci	auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Livi of Reduced Iron (C4 on Reduction in Tilled k Surface (C7) Well Data (D9)	I)	Surl Drai Dry X_ Cray Stur Stur See	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) 7/10/1/2 shouration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) interprise Position (D2)
Surface Water High Water Saturation Water Mark Sediment I Drift Depos Algal Mat of Iron Depos Inundation Sparsely V	(A3) ks (B1) Deposits (B2) hits (B3) or Crust (B4) hits (B5) Visible on Aerial regelated Concavi	imagery (B7)	Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent In Thin Muci	auna (B13) atic Plants (B14) Sulfide Odor (C1) Rhizospheres on Livi of Reduced Iron (C4 on Reduction in Tilled k Surface (C7)	I)	Surl Drai Dry X_ Cray Stur Stur See	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) 7/10/1/2 shouration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) interprise Position (D2)
Surface Water High Water Saturation Water Mari Sediment I Drift Depos Algal Mat of Iron Depos Inundation Sparsely V	(A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) Visible on Aerial (egetated Concavitions:	lmagery (B7) e Surface (B8	Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent Ind Thin Muci Gauge or Other (Ex	auna (B13) atic Plants (B14) I Sulfide Odor (C1) Rhizospheres on Livor Reduced Iron (C4) On Reduction in Tilled K Surface (C7) Well Data (D9) plain in Remarks)	t) d Soils (C6)	Surl Drai Dry X_ Cray Stur Stur See	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) 7/10/1/2 shouration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) interprise Position (D2)
Surface Water High Water Mark Sediment E. Drift Depos Algal Mat c. Iron Depos Inundation Sparsely Vold Observat	(A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) Visible on Aerial fegetated Concavitions: Present?	Imagery (B7) e Surface (B8 'es No	Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent Int Thin Muci Gauge or Other (Ex	auna (B13) atic Plants (B14) I Sulfide Odor (C1) Rhizospheres on Liviof Reduced Iron (C4 on Reduction in Tilled k Surface (C7) Well Data (D9) plain in Remarks)	d Soils (C6)	Surl Drai Dry X_ Cray Stur Stur See	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) 7/10/1/2 shouration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) interprise Position (D2)
Surface Water High Water Saturation Water Mari Sediment E Drift Depose Algal Mat of Iron Depose Inundation Sparsely V Hid Observation	(A3) ks (B1) Deposits (B2) Sits (B3) or Crust (B4) sits (B5) Visible on Aerial fegetated Concavitions: Present? Y esent? Y	Imagery (B7) e Surface (B8 'es No 'es No	Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent Int Thin Mucl Gauge or Other (Ex	auna (B13) atic Plants (B14) I Sulfide Odor (C1) Rhizospheres on Livior Reduced Iron (C4 on Reduction in Tilled k Surface (C7) Weil Data (D9) plain in Remarks) Inches):	d Soils (C6)	Surli Drai Dryy _X Cray Satu Stur X Geo X FAC	inage Patierns (B10) -Season Water Table (C2) -Season Water Table (C2) -Season Water Table (C2) -Season Water Table (C2) -Tipe 12 - Since Inagery (C9) - Marial Imagery (C9) - M
Surface Water Saturation Water Mari Sediment E Drift Depose Algal Mat of Iron Depose Inundation Sparsely V Seld Observation State Table Present Table Presen	(A3) ks (B1) Deposits (B2) Viits (B3) or Crust (B4) sits (B5) Visible on Aerial (egetated Concavitions: Present? yesent? yesent? Yesent?	Imagery (B7) e Surface (B8 'es No 'es No	Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent Int Thin Mucl Gauge or Other (Ex	auna (B13) atic Plants (B14) I Sulfide Odor (C1) Rhizospheres on Liviof Reduced Iron (C4 on Reduction in Tilled k Surface (C7) Well Data (D9) plain in Remarks)	d Soils (C6)	Surli Drai Dryy _X Cray Satu Stur X Geo X FAC	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) 7/10/1/2 shouration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) interprise Position (D2)
Surface Water High Water Saturation Water Mari Sediment E Drift Depose Algal Mat of Iron Depose Inundation Sparsely V Bid Observate Inface Water Stater Table Preservation Pre	(A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) Visible on Aerial fegetated Concavitions: Present? esent? y esent? y esent? y ery fringe)	Imagery (B7) e Surface (B8 fes No fes No fes No	Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent Int Thin Muci Gauge or Other (Ex Depth (int X Depth (int X Depth (int X	auna (B13) atic Plants (B14) I Sulfide Odor (C1) Rhizospheres on Livior Reduced Iron (C4 on Reduction in Tilled k Surface (C7) Weil Data (D9) plain in Remarks) Inches):	d Soils (C6)	Surficient	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) 7/10112 Shouration Visible on Aerial Imagery (C9) inted or Stressed Plants (D1) imorphic Position (D2) C-Neutral Test (D5)
Surface Water High Water Saturation Water Mark Sediment I Drift Depose Algal Mat of Iron Depose Inundation Sparsely Velid Observation Internation Presidudes capillates Capillat	(A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) Visible on Aerial fegetated Concavitions: Present? esent? y esent? y esent? y ery fringe)	Imagery (B7) e Surface (B8 fes No fes No fes No	Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent Int Thin Muci Gauge or Other (Ex	auna (B13) atic Plants (B14) I Sulfide Odor (C1) Rhizospheres on Liviof Reduced Iron (C4) on Reduction in Tilled k Surface (C7) Well Data (D9) plain in Remarks) Inches): Inches):	d Soils (C6)	Surficient	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) 7/10112 Shr uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) emorphic Position (D2) C-Neutral Test (D5)
Surface Water High Water Saturation Water Mari Sediment E Drift Depose Algal Mat of Iron Depose Inundation Sparsely V Seld Observation atter Table Protuction Presidudes capilla	(A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) Visible on Aerial fegetated Concavitions: Present? esent? y esent? y esent? y ery fringe)	Imagery (B7) e Surface (B8 fes No fes No fes No	Aquatic F True Aquatic F Hydrogen Oxidized Presence Recent Int Thin Muci Gauge or Other (Ex	auna (B13) atic Plants (B14) I Sulfide Odor (C1) Rhizospheres on Liviof Reduced Iron (C4) on Reduction in Tilled k Surface (C7) Well Data (D9) plain in Remarks) Inches): Inches):	d Soils (C6)	Surficient	face Soil Cracks (B6) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) 7/10112 Shr uration Visible on Aerial Imagery (C9) nted or Stressed Plants (D1) emorphic Position (D2) C-Neutral Test (D5)

Project/Site:Blue Lake Campground		City/Cc	ounty:	Churubus	sco/Whitley	Sampline	Date: 9/13/20	311
Applicant/Owner: All American Resort I, LLC			•		State: IN			
Investigator(s): Scott Matthews (COE), Marty Maupin	(IDEM)	Section	n. Tow		nge: SE 1/2, Sec 10, TV			
Landform (hillslope, terrace, etc.): Lake Frindge				-	(concave, convex, none):			inal - de
Slope (%): Lat:								
Soil Map Unit Name: Martisco Muck Drained					NWI classific			
Are climatic / hydrologic conditions on the site typical for	r this time of ve	ar? Ye	s ×					
Are Vegetation $\underline{\hspace{1cm} \hspace{1cm} \hspace{1cm}\hspace{1cm}\hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm} \hspace{1cm}$					'Normal Circumstances"	•	Yes N	ın X
Are Vegetation, Soil, or Hydrology					eded, explain any answe			
SUMMARY OF FINDINGS - Attach site ma								s, etc.
Hydrophytic Vegetation Present? Yes X	No							
Hydric Soil Present? Yes X	No	1		Sampled				
Wetland Hydrology Present? Yes	No_X		withir	a Wetlar	1d? Yes^	No.		
Area sampled was filled. Vegetation from adjace VEGETATION - Use scientific names of plan		d area	(sam	pling pt 4	1) met hydrophytic veg	etation ———	(-)	1100 - 11 - 11 - 11 - 1
	Absolute			ndicator	Dominance Test work	sheet:		
Tree Stratum (Plot size:) 1	% Cover	Speci	ies?	Status	Number of Dominant S That Are OBL, FACW,	pecies or FAC:	1	(A)
3.					Total Number of Domin Species Across All Stra		1	_ (B)
4					Percent of Dominant S	necies		
5					That Are OBL, FACW,		100.00	(A/B)
Sapling/Shrub Stratum (Plot size:	, —	= Total	I Cove	ır	Prevalence Index wor	ksheet:		
1.					Total % Cover of:		Multiply by:	
2.					OBL species 0		= 0	
3					FACW species0	×2	<u> </u>	_
4.					FAC species 90	<u>) </u>	270	
5					FACU species0	^¬	.= 0	_
Herb Stratum (Plot size: 1 Sq m)	<u> </u>	= Total	l Cove	r	UPL species0	^`	i =0	_
1. Poa Pratensis	90	Υ	F	AC	Column Totals: 90	O (A)	270	(B)
2.				11	Prevalence Index	= B/A =	3.00	
3.					Hydrophytic Vegetation			
4.					1 - Rapid Test for I	-lydrophyti	c Vegetation	
5		***************************************			X 2 - Dominance Tes			
6					× 3 - Prevalence Inde	ex is ≤3.0¹		
7					4 - Morphological /	Adaptation	s¹ (Provide sup	porting
8				<u> </u>	data in Remarks			
9.					Problematic Hydro	pnyac veg	etation (Expia	nu)
10		= Total	l Cove	ır	¹ Indicators of hydric soi be present, unless diste	il and wetla urbed or pr	and hydrology : roblematic.	must
1.					Hydrophytic Vegetation		, , , , , , , , , , , , , , , , , , ,	The state of the s
2		= Total	1000		1	s	No	
Remarks: (Include photo numbers here or on a separa		= 10(8)	Cove	<u> </u>			***************************************	
Area filled. Vegetation was planted lawn grass. S	ŕ	oint 4	for re	epresenta	ative vegetation.			

Sampling Point: 3

(inches) -16			Rede	ox Feature	S				
-16	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
								Fill	
3 - 20	10 yr 2/1	100						Greasy muck	
) -	10 yr 5/1	100					61.clc		
	,			·	· ·	-	C.A.	A	
							- Sinh	L	
		-					***************************************		
					-				
vpe: C=Co	ncentration, D=Der	etion, RM:	Reduced Matrix, M	S=Masked	Sand Gra	ins.	²l ocai	tion: PL=Pore Lining, M=Mat	riv
dric Soil li							Indicate	ors for Problematic Hydric	Soils ³ :
_ Histosol ((A1)		Sandy	Gleyed Ma	atrix (S4)		Coa	ast Prairie Redox (A16)	
_ Histic Epi	ipedon (A2)			Redox (S5				rk Surface (S7)	
_ Black His			Strippe	d Matrix (S	36)		Iror	n-Manganese Masses (F12)	
	n Sulfide (A4)			Mucky Mir				y Shallow Dark Surface (TF1	2)
_	Layers (A5)			Gleyed Ma			Oth	ier (Explain in Remarks)	
2 cm Mud		- (444)	× Deplete		•				
	Below Dark Surfac rk Surface (A12)	e (A11)		Dark Surfa ed Dark Su	• ,		3		
	ucky Mineral (S1)			Depressio				tors of hydrophytic vegetation land hydrology must be prese	
	cky Peat or Peat (S	3)	11000	Debi essio	113 (1 0)			ess disturbed or problematic.	5f i E.,
	ayer (if observed)							The state of the s	
Type:									
							Hydric S	ioil Present? Yes X	No
Depth (incidental control cont	hes):						<u> </u>		
emarks:							, i		
emarks:									
emarks: 'DROLOG 'etland Hyd	GY rology Indicators:		red: check all that a	DDIY)				ndary Indicators (minimum of	
emarks: 'DROLOG etiand Hyd imary Indica	GY rology Indicators:			pply)	res (89)		Seco		
DROLOG etiand Hyd imary Indica	GY rology Indicators: ators (minimum of c		Water-Sta				Seco	ndary indicators (mínimum o	
emarks: 'DROLOG etiand Hyd rimary Indica	GY irology Indicators: ators (minimum of o Water (A1) ter Table (A2)		Water-Sta Aquatic F	ined Leav)		Seco	ndary Indicators (minimum of Surface Soil Cracks (B6)	two require
DROLOG etland Hyd imary Indica Surface V High Wat	GY rology Indicators: ators (minimum of of Mater (A1) ter Table (A2) n (A3)		Water-Sta Aquatic F True Aqua	iined Leav auna (B13	(B14)		Seco	ndary Indicators (minimum of Surface Soil Cracks (B6) Drainage Patterns (B10)	two require
PROLOC (etland Hyd rimary Indica Surface V High Wat Saturation Water Ma	GY rology Indicators: ators (minimum of of Mater (A1) ter Table (A2) n (A3)		Water-Sta Aquatic Factor True Aqua Hydrogen	ained Leav auna (B13 atic Plants	(B14) dor (C1)	ing Roots	Seco	ndary Indicators (minimum of Burface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2)	two require
PROLOCION (PROLOCION IN PROLOCION IN PROLOCIONI IN PROL	rology Indicators: ators (minimum of of Water (A1) for Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3)		Water-Sta Aquatic F. True Aqua Hydrogen Oxidized	ained Leav auna (B13 atic Plants Sulfide O	(B14) dor (C1) res on Livi	-	Seco	ndary Indicators (minimum of Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)	two require
DROLOC etland Hyd imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo	GY rology Indicators: ators (minimum of of Nater (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2)		Water-Sta Aquatic F. True Aqua Hydrogen Oxidized Presence	ained Leav auna (B13 atic Plants Sulfide Oo Rhizosphe	(B14) (B14) dor (C1) eres on Livi ed Iron (C4	-)	Seco	ndary Indicators (minimum of Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im	two require
OROLOC etiand Hyd imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo	ators (minimum of of Mater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	one is requi	Water-Sta Aquatic Factor True Aquatic Factor Hydrogen Oxidized In Presence Recent Ind Thin Mucl	ained Leav auna (B13 atic Plants Sulfide Oc Rhizosphe of Reduce on Reducti k Surface ((B14) dor (C1) eres on Livi ed Iron (C4 ion in Tilled	-)	Seco	ndary Indicators (minimum of Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Stunted or Stressed Plants (D	two require
/DROLOC lettand Hyd imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio	ators (minimum of of Mater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial	one is requi	Water-Sta Aquatic F. True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Mucl 7) Gauge.or	ained Leav auna (B13 atic Plants Sulfide O Rhizosphe of Reduce on Reducti k Surface ((B14) dor (C1) less on Livied Iron (C4 ion in Tilled (C7) (D9)	-)	Seco	ndary Indicators (minimum of Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2)	two require
/DROLOC /etland Hyditimary Indical Surface V High Water Mater M	ators (minimum of of water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav	one is requi	Water-Sta Aquatic F. True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Mucl 7) Gauge.or	ained Leav auna (B13 atic Plants Sulfide Oc Rhizosphe of Reduce on Reducti k Surface ((B14) dor (C1) less on Livied Iron (C4 ion in Tilled (C7) (D9)	-)	Seco	ndary Indicators (minimum of Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2)	two require
PROLOC Surface V High Water Ma Sediment Drift Depo Algal Mater Iron Depo Inundatio Sparsely eld Observ	rology Indicators: ators (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concaviations:	imagery (B e Surface (I	Water-Sta Aquatic F. True Aqua Hydrogen Oxidized I Presence Recent Inc Thin Mucl Gauge.or Other (Ex	ained Leav auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti k Surface (Well Data plain in Re	(B14) (B14) dor (C1) eres on Livied Iron (C4) don in Tilled (C7) (D9) emarks)	-)	Seco	ndary Indicators (minimum of Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2)	two require
PROLOC Surface V High Water Ma Sediment Drift Depo Algal Mater Iron Depo Inundatio Sparsely eld Observ	rology Indicators: ators (minimum of o Nater (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concaviations: er Present?	imagery (B e Surface (I	Water-Sta Aquatic F. True Aqua Hydrogen Oxidized I Presence Recent Ind Thin Mucl T) Gauge.or B8) Other (Ex	ained Leav auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti k Surface (Well Data plain in Re	(B14) (B14) dor (C1) eres on Livide Iron (C4) don in Tilled (C7) (D9) emarks)	d Soils (Co	Seco	ndary Indicators (minimum of Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2)	two require
PROLOCIETIAN PROLO	rology Indicators: ators (minimum of of Nater (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concaviations: ar Present?	imagery (B e Surface (I r'es		ained Leav auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti k Surface (Well Data plain in Re	(B14) (B14) dor (C1) eres on Livi ed Iron (C4) on in Tilled (C7) (D9) emarks)	d Soils (Co	Seco	ndary Indicators (minimum of Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2)	agery (C9)
PROLOC Vetland Hyd rimary Indica Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely ield Observ varface Water Table Featuration Pre coludes capi	rology Indicators: ators (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial Vegetated Concaviations: ar Present? Present? yesent? yesent?	imagery (B' e Surface (I 'es	Water-Sta Aquatic F. True Aqua Hydrogen Oxidized I Presence Recent Ind Thin Mucl T) Gauge.or B8) Other (Ex	ained Leav auna (B13 atic Plants Sulfide Or Rhizosphe of Reduce on Reducti k Surface (Well Data plain in Re aches): aches):	(B14) (B14) dor (C1) eres on Livi ed Iron (C4) don in Tilled (C7) (D9) emarks)	d Soils (Co	Seco S .	ndary Indicators (minimum of Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2) FAC-Neutral Test (D5)	agery (C9)

Project/Site:Blue Lake Campground			City/Count	y: Churubus	ico/Whitley s	ampling	Date: 9/13/20	11
Applicant/Owner: All American Resort I,					State: ^{IN} S	ampling	Point: 4	
Investigator(s): Scott Matthews (COE), I	Marty Maupin (IDEM)	Section, T	ownship, Ra	nge: SE 1/2, Sec 10, TWN	32 N, Ra	ange 10 E	
Landform (hillslope, terrace, etc.): Lake F			······································	Local relief	(concave, convex, none): A	rea of Fi	II - Flat - Origi	inal - cor
Slope (%): Lat: 41 14.626	<u>' N</u>	i	Long: 85 21.351' W Datum:					
Soil Map Unit Name: Martisco Muck					NWI classificati	on: <u>PSS</u>	1C	
Are climatic / hydrologic conditions on the	e site typical for	this time of yea	ar? Yes _	<u> </u>	(If no, explain in Ren	narks.)		
Are Vegetation, Soil, or H	tydrology	significantly	disturbed?	Are "	'Normal Circumstances" pre	sent? Y	'es <u>×</u> N	<u></u>
Are Vegetation, Soil, or H	łydrology	naturally pro	blematic?	(if ne	eded, explain any answers	in Rema	rks.)	
SUMMARY OF FINDINGS - At	tach site ma	ap showing	sampli	ng point k	ocations, transects, i	mporta	ant feature	s, etc.
Hydrophytic Vegetation Present?	Yes X	No						
Hydric Soil Present?	Yes X	No		the Sampled				
Wetland Hydrology Present?	Yes X	. No	Wit	thin a Wetlar	nd? Yes <u>×</u>	_ No _		
Remarks:								
			-					
VEGETATION – Use scientific n	ames of plar	nts						
Tree Stratum (Plot size:	``	Absolute % Cover		nt Indicator	Dominance Test worksh			
1, Acer saccharinum	/	75 75	Y	? Status FACW	Number of Dominant Spec That Are OBL, FACW, or		5	/A)
2. Fraxinus pennsylvanica		25	Y	FACW				(A)
3					Total Number of Dominan Species Across All Strata:		5	(B)
4.							A. A. Special control of the control	(6)
5					Percent of Dominant Special That Are OBL, FACW, or I		100.00	(A/B)
			= Total Co	over				(700)
Sapling/Shrub Stratum (Plot size:)		~	E A C \ A (Prevalence Index works			
Acer saccharinum Caphalanthus accidentalus		30	Y Y	FACW	Total % Cover of: OBL species 95		Multiply by: = 95	-
2. Cephalanthus occidentalus					OBL species 95 FACW species 190	x1 x2	200	
3			**************************************	-	FAC species 0	^2		_
5	AND THE REAL PROPERTY OF THE PERSON AND THE PERSON	THE PERSON NAMED OF THE PE	ANTHON TAXABLE SANCES TO THE		FACU species 0	^3		_
4.0		90	= Total Co	over	UPL species 0	x5		_
)				Column Totals: 285	(A)	475	(B)
1. Carex lupulina		80	Y	OBL	See toward date.	-	1.67	
2. Lycopus americanus			N	OBL	Prevalence Index = Hydrophytic Vegetation			
3. Iris versicolor		<u> </u>			× 1 - Rapid Test for Hyd			
4					× 2 - Dominance Test is		: vegeranon	
5					× 3 - Prevalence Index			
6 7					4 - Morphological Ada		¹ (Provide sup	norting
8.					data in Remarks o			
9.					Problematic Hydrophy	ytic Vege	etation1 (Expla	in)
10								
,,,,			= Total Co	over	¹ Indicators of hydric soil a be present, unless disturb			must
Woody Vine Stratum (Plot size:)			•	be present, unless distalla	ea or pre	objections.	
1					Hydrophytic			
2					Vegetation Present? Yes	×	No	
			= Total Co	over	[[]			
Remarks: (Include photo numbers here	a or on a separa	ate sheet.)						

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SOIL			
SUIL			

SOIL								Sampling Point: ⁴
	rintion: (Describe to	the deni	h needed to docum	nant tha	indicator	or confirm	the absence	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features								
(inches)	Color (moist)	%	Color (moist)	<u>x reatur</u> %	os Type¹	Loc²	Texture	Remarks
0-4	10yr 2/1							mucky peat
4-24	10yr 7/1 5	0	10yr 5/6	50		m	5 lm	
***************************************				<u></u>		·	Cles 1	1412
•			·····	***************************************	<u> </u>	-	<u> 4~ '</u>	
							· · · · · · · · · · · · · · · · · · ·	
				-		-		
¹Type: C=Ce	oncentration, D=Depleti	ion. RM=	Reduced Matrix MS	=Maske	ed Sand G	rains.	2 ocatio	n: PL=Pore Lining, M=Matrix.
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators:						Indicators for Problematic Hydric Soils ³ :		
Histosol (A1) Sandy Gleyed Matrix (S4)						Coast Prairie Redox (A16)		
Histic Epipedon (A2) Sandy Redox (S5)						Dark Surface (S7)		
Black Histic (A3) Stripped Matrix (S6)						Iron-Manganese Masses (F12)		
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)						Very Shallow Dark Surface (TF12)		
Stratified Layers (A5) Loamy Gleyed Matrix (F2) X 2 cm Muck (A10) X Depleted Matrix (F3)						Other	r (Explain in Remarks)	
	d Below Dark Surface (/	A11)	_ ,		(F3) face (F6)			
	ark Surface (A12)	,			Surface (F7	η.	³ Indicators of hydrophytic vegetation and	
	lucky Mineral (S1)		Redox Depressions (F8)				wetland hydrology must be present,	
5 cm Mu	icky Peat or Peat (S3)						unless disturbed or problematic.	
Restrictive I	Layer (if observed):							
Туре:						Undia Cal	il Present? Yes X No	
Depth (inc	ches):		-				Hydric Soil Present? Yes X No No	
Remarks:							<u> </u>	
	GY							
-	drology Indicators:							
_		is requir	ed: check all that an	nlv)			Second	tary indicators (minimum of two society)
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9)							lary Indicators (minimum of two required) rface Soil Cracks (B6)	
	High Water Table (A2)			Aquatic Fauna (B13)				
Saturation (A3)				True Aquatic Plants (B14)				ainage Patterns (B10) y-Season Water Table (C2)
Water Marks (D4)			A forest and a second	Hydrogen Sulfide Odor (C1)				ayfish Burrows (C8)
X Sediment Deposits (B2) 7 [10] 12 SAM			Oxidized R	Oxidized Rhizospheres on Living Roots (C)				furation Visible on Aerial Imagery (C9)
Drift Deposits (B3)			Presence of	Presence of Reduced Iron (C4)				inted or Stressed Plants (D1)
Algal Mat or Crust (B4)				Recent Iron Reduction in Tilled Soils (C6)				emorphic Position (D2)
	osits (B5)		Thin Muck					C-Neutral Test (D5)
X Inundation Visible on Aerial Imagery (B7) Gauge or \	Gauge or Well Data (D9)				
Sparsely	Vegetated Concave S	urface (E	38) Other (Exp	lain in R	lemarks)			
Field Obser	vatione.						***************************************	and the second s

Yes ____ No X Depth (inches): ____

(includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

 Yes
 No
 X
 Depth (inches):

 Yes
 No
 X
 Depth (inches):

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Surface Water Present?

Water Table Present?

Saturation Present?

Remarks:

Wetland Hydrology Present? Yes X No ___